SKOPETS, Z.A. (Iaroslavl'); MAIOROV, V.M. (Drezden); YAGLOM, I.M. (Moskva); DOEROKHOTOVA, M.A. (Yaroslavl')

Selected problems and theorems and special methods for their solution. Part 2. Mat. v shkole no.3:90 My-Je '63. (MIRA 16:7)

(Mathematics—Problems, exercises, etc.)

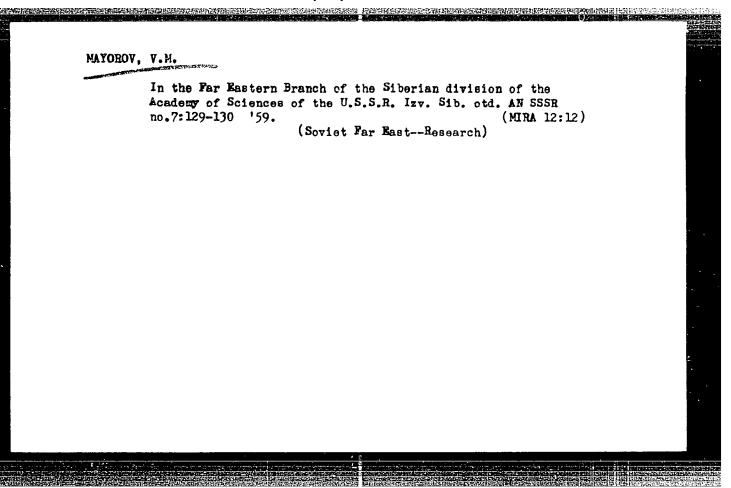
OV, V.H.  In the Scientific	Council of the Far Eas	stern Branch of the	
Academy of Science 159-160 '58.	(Research)	(HIRA 12:4)	
	(Meneri City		
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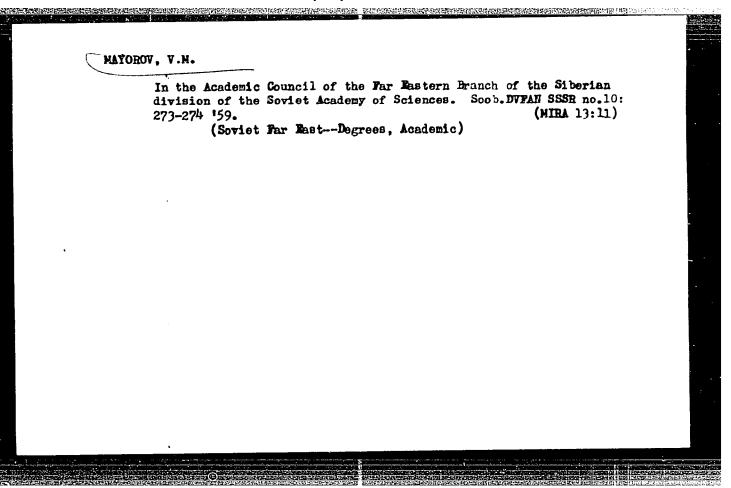
MAYOROV, V.M.

In the Far Eastern section of the Siberian branch of the Academy

of Seiences of the U.S.S.R. Izv.Sib.otd.AN SSSR no.2:153 59. (MIRA 12:7)

(Academy of Sciences of the U.S.S.R.)





# MAYCROW V.M. Anniversary session of the Scientific Council. Soob. DVFAN SSSR no.21:45 '63. (MIRA 18:6)

MAYOROV, V. N.

"Morphology of the Lower Mesenteric Plexus in Man and Mammals (Experimental Morphological Investigations)." Cand Med Sci, Inst of Physiology imeni I. P. Pavlov, Acad Sci USSR (Apr-Jun 54) (Vest Ak Nauk, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

USSR/Medicine - Neurophysiology

MAYSTON, V. N.

FD-3393

Card 1/1

Pub. 17-17/22

Author

: Mayorov, V. II.

Title

: Forms of connections of the lower mesenteric ganglia of humans

and mammals with the central nervous system

Periodical

: Byul. eksp. biol. i med. 8, 62-66, Aug 1955

Abstract

: In 1953 Yu. I. Slepkov first discovered sensory nerve endings in the inferior mesenteric Ganglia of man. He reported that a considerable part of the receptors found are of central origin. He did not find other forms of connections between the central nervous system and the lower mesenteric ganglia - a so-called pericellular apparatus. Author reviews much of the work done by other Russian authors in relation with his own work and discusses the illustrations accompanying his article. Presence of a degenerating end apparatus after resection of the posterior rootlets of the spinal cord leads author to believe that there exists central reception of the inferior mesenteric ganglion as well as distribution of sensory neurons in the lumbarintraspinal ganglia.

8 references, 7 USSR, 2 since 1940, micrographs.

Institution : Inst of Physiology imeni I. P. Pavlov (Dir. Acade. K. M. Bykov) Acad

Sci USSR, Leningrad

C

Submitted

4 March 1955

MAYOROV, V.N. (Leningrad)

Modifications of the pericellular apparatus under experimental and pathological conditions. Arkh. pat. 19 no.1:40-42 '57 (MIRA 10:4)

1. Iz Instituta fiziologii imeni I.P. Pavlova AN SSSR. (SYNAPSES, pathology)

### MAYOROV, V.N.

Method of intravital study of the nerves of the bladder in frogs [with summery in English]. Biul.eksp.biol. i med. 44 no.7:113-115 J1 '57. (MIRA 10:12)

1. Iz laboratorii morfologii (zav. laboratoriyey - chlen-korrespondent AN SSSR prof. N.G.Kolosov) Institute fiziologii imeni I.P.
Pavlova AN SSSR, Leningrad. Predstavlena akad. K.M.Bykovym.
(BIADDER, INNERVATION,
intravital study in frog (Rus))

USSR / Human and Animal Morphology - Nervous System.

S

**文学和文化的文化等,以由《中国文艺》的《中国文艺》的《中国文艺》** 

: Ref. Zhur. - Biol., No. 22, 1958, No. 101479 Abs Jour

Author

Inst

: Mayorov, V. N. : Academy of Sciences USSR

Title |

: The In Vivo Observation of Inter-Neural Connections and Receptors in the Urinary Bladder of

Rana Temporaria

Orig Pub

: Dokl. AN SSSR, 1957, Vol. 115, No. 4, 826-828

Abstract

: Receptors and synapses of the urinary bladder were visualized microscopically in vivo following removal of the wing of the right iliac bone and introduction of the objective of the microscope into the lumen of the bladder through an incision. 3-4 minutes following injection into the blood of of a 0.25 percent solution of methylene blue, there was evidence of staining of the spiral

Card 1/2

MAYOROV, V.N.

Observation of internauronic commection and receptors in the bladder of Rana temporaria in vivo. Dokl. AN SSER 115 no.4:826-828 Ag '57.

(MIRA 10:12)

1. Institut fiziologii im. I.P. Pavlova AN SSER. Predstavleno akademikom K.N. Bykovym.

(FROGS) (BIADDER-INNERVATION)

MAYOHOV, V.H. (Leningrad, ul.Flekhanova, d.39, kv.28)

Recent data on the structure of living and surviving neurons and synapses. Arkh.anat.,gist. i embr. 36 no.6:3-10 Je '59.

(MIRA 12:9)

1. Leboratoriya morfologii (sav. - prof.N.G.Kolosov) Instituta fiziologii im. I.F.Pavlova AN SSSR.

(MERICIN, anat. & histol.

(Mas))

(SYNAPSES,

structure (Rus))

17(1) AUTHOR:

Mayorov, V. N.

SOV/20-124-6-38/55

TITLE:

Observations of Peribellular Apparatuses in vivo

(Prizhiznennyye nablyudeniya nad peritsellyulyarnymi apparatami)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 6, pp 1321-1323

(USSR)

ABSTRACT:

In literature amessible to him the author has not found an answer to the problem as to how a living pericellular apparatus is constructed and whether methylene blue actually colors but also at the same time changes the structure of this apparatus. This is not accidental: no one ever observed an uncolored living synapse. After a long search the author succeeded in obtaining a living histological preparation from the urinary bladder of the grass frog (Rana temporaria). The same nerve cells and pericellular apparatuses (Refs 8, 9) were distinctly visible in it without any coloring and at a state of an intact blood circulation which were described on fixed and surviving preparations (Refs 1, 15). According to requirement author colored the blood of living synapses with methylene blue. Thus one and the same synapse could be observed before and after the

Card 1/3

Observations of Pericellular Apparatuses in vivo

sov/20-124-6-38/55

coloring. The facts investigated may have answered the above-mentioned questions. Between the structures of synapses cclored with methylene blue and silver nitrates there are considerable differences to be observed (Figs 1 and 2). A noncolored living synapse is indeed visible but only partly (Fig 3). Numerous investigations have shown that methylene blue simultaneously colors and changes a living synapse. The disks transform immediately after pigmentation into oval or directly into globular shapes (Fig 1). Only some of them retain their original spindle shape. On pigmentation the disks grow larger. In this case they can cover the whole surface of the neuron. The actual fibers of the synapse are not changed. Thus methylene blue may be considered 1) the only coloring matter which makes a living synapse visible and 2) as a stimulating substance which changes the structure of inter-neuron bonds. Between the pericellular fibers and their disks on the one hand and the surface of the peripheral neuron on the other hand there is a close contact which is distinctly visible in the case of a living synapse.

Card 2/3

Observations of Pericellular Apparatuses in vivo

sov/20-124-6-38/55

The submerged position of the disks is not accidental apparently: it enlarges the contact surface and renders the contact closer. There are 3 figures and 17 references, 11 of which are Somiet.

ASSOCIATION:

Institut fiziologii im. I. P. Pavlova Akademii nauk SSSR (Institute of Physiology imedi I. P. Pavlov of the Academy of Sciences, USSR)

PRESENTED:

October 29, 1958 by K. M. Bykov, Academician

SUBMITTED:

October 25 1958

Card 3/3

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# MAYOROV, V.N.

In vivo observations on interneuronic connections in the urinary bladder of the frog Rana temporaria. Izv. AN SSSR. Ser. biol. no.5: 787-791 S-0 '60. (MIRA 13:9)

1. Institute of Physiology, Academy of Sciences of the U.S.S.R., Leningrad.

(BLADDER-INNERVATION)

的现在分词形式的原理的人,这种特殊的人,但是这些的人,但是这些的人,但是不是一个人,也不是一个人,也不是一个人,也是这种人,也是一个人,也是一个人,也是一个人,

MAYOROV, V.N. (Leningrad, tsentr.ul.Plekhanova, 39, kv.28)

Intravital observations of sensory nerve endings. Arkh. anat. gist. i embr. 38 no. 5:31-34 My '60. (MIRA 14:2)

1. Laboratoriya morfologii (zav. - chlen-korrespondent AN SSSR prof. N.G. Kolosov) Instituta fiziologii im. I.P. Pavlova AN SSSR.

(RECEPTORS (PHYSIOLOGY))

Dynamics of intravital structural changes in interneuronal connections 'synapses) under experimental conditions. Trudy Inst. fiziol. 10:346-361 '62 (MIRA 17:3)

1. Laboratoriya morfologii (zav. - N.G. Kolosov) Instituta fiziologii imeni Pavlova AN SSSR.

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1 25803-66 ACC NR. AP6015931 UR/0239/65/051/003/0309/0317 SOURCE CODE: AUTHOR: Bazanova, I. S.; Yevdokimov, S. A.; Mayorov, V. N.; Merkulova, O. S.; Chernigovskiy, V. N.--Chernigovski, V. N. ORG: Laboratory of General Physiology, Institute of Physiology im. I. P. Pavlov, Leningrad (Laboratoriya obshchey fiziologii Instituta fiziologii AN SSSR) TITIE; Morpho-electrophysiological investigation of the interneuron synapse on a living preparation of the parasympathetic ganglion of the urinary bladder of the frog SOURCE: Fiziologicheskiy zhurnal SSSR. v. 51, no. 3, 1965, 309-317 TOPIC TAGS: electrophysiology, autonomic nervous system, experiment animal Parallel morphological and electrophysiological study ABSTRACT: of interneuron synapses of the parasympathetic ganglion of the urinary bladder of the frog was carried out on living histological preparations at +2°. It was established that in the process of irritation of a synapse with electric currents of various frequencies, a hypotonic solution (Leningrad city water), and a solution of methylene blue, morphological and functional changes took place in the synapse. Conduction of nerve impulses through the synapse was retained in all stages of morphological change, elthough it was altered in magnitude and type. The morphological 612.815

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of para	aecros1	s. Orig. ar	t. has: 4	figures. [	JPRS]			
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BAZANOVA, I.S.; TEVDOKIMOV, S.A.; MAYOROV, V.N.; MERKULOVA, O.S.; CHERNICOVSKIY, V.N.

Morphological and bioelectrical changes in the interneuronal synapsis during the transmission of rhythmical impulses. Fiziel. zhur. 51 no.4:457-462 Ap '65. (MIRA 18:6)

1. Laboratoriya obshchey fiziologii Instituta fiziologii imeni Pavlova AN SSSR, Leningrad.

IONTOV, A.S., doktor med. nauk, otv. red.; MAYOROV, V.N., kand. med. nauk, otv. red.

[Morphology of the tracts and connections of the central nervous system] Morfologiia putey i sviazei tsentral'noi nervnoi sistemy. Moskva, Nauka, 1965. 144 p.

(MIRA 19:1)

1. Akademiya nauk SSSR. Institut fiziologii im. 1.F. Pavlova.

ARKAD'YEVSKIY, A.A.; MAYOROV, V.P.; RUMYANTSEV, G.I.

Methodological problems in the measurement and evaluation of vibrations and noise. Uch. zap. Mosk.nauch-issl.inst. san.i gig. no.7:17-25 '60. (MRA 15:2)

(NOISE\_MEASUREMENT) (VIBRATION\_MEASUREMENT)

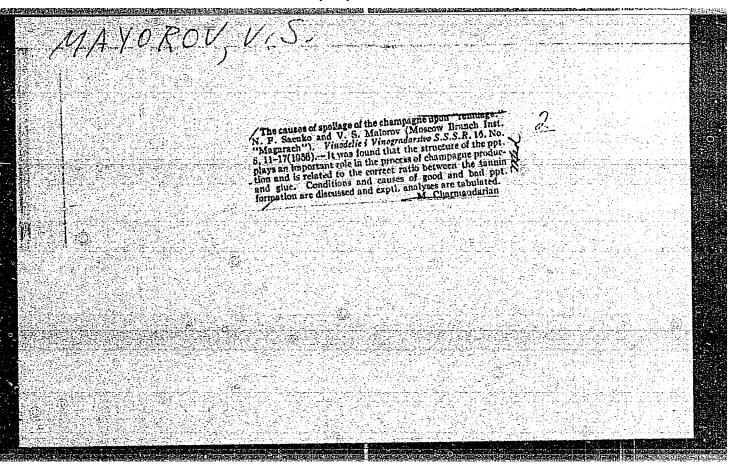
- 1. MAYOROV, V.S.; OSIPOV, N.V.
- 2. USSR (600)
- 4. Wine and Wine Making
- 7. Wine industry needs precise instructions and direction in chemical and microbiological control. Vin.SSSR 12 no.10, 1952.

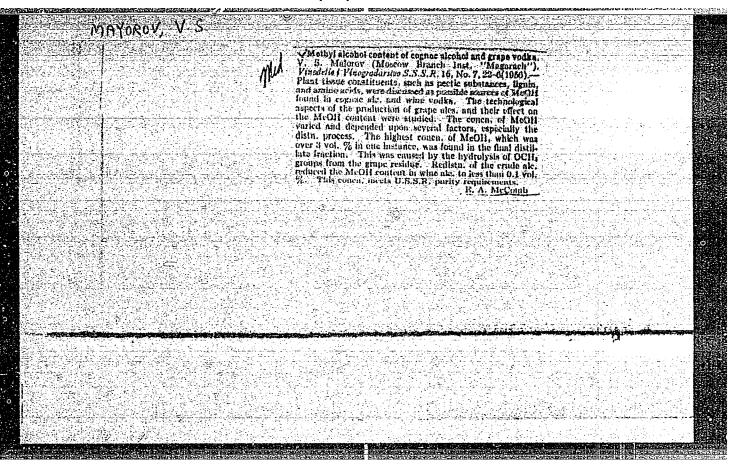
9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

- 1. MAYOROV, V.S.
- 2. USSR (600)
- 4. Brandy
- 7. Esters of brandy and how they are analyzed. , Vin. SSSR , 12, No.12, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

MAYORDY V.S.	
	Belein of cognic alcohols and a method of their determination   V. S. Maforov (Moccow Branch inst. "Magarach"),   Vigoshire   Unogradernte   S.S.S.R.   12, No.   12, 52 5   Vigoshire   Unogradernte   S.S.S.R.   12, No.   12, 52 5   (1952) Cognic alea contain 75- 55) jug. org. estera (1749)   onl. abs. ale.   About 30% of the total ant. of I is formed during rectification of the young raw product.   About 55 of the total cont.   About 55 of the to
	The told ont, are betten, and provided the before produces are obtained from young cognics, which before aging contain I and higher ales, in the ratio of 1/2, 1749.  During the aging the total and of I is not changed, yet the contain the aging the edge and of I is changing. A sapara on aging the elem nature of I is changing. A sapara method (with 0.17 NaOH soln.) is described for the dean, of I in cognics.  E. Wierbicker.





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USSR / Microbiology. Technical Microbiology.

F-3

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72021.

Author: Sayenko, N. F.; Mayorov, V. S.
Inst: All-Union-Scientific-Research Institute of Vini-

culture and Viticulture.

: Factors Influencing the Formation of Yeast Deposit Title

Structures in the Champagne Aging Process.

Orig Pub: Byul, nauchno-tekhn, inform. Vses. n.-i. in-t

vinodeliya i vinogradarstva, 1957, No 1, 24-29.

Abstract: Along with physical and chemical reasons for the

formation of yeast deposits with undesirable properties for champagne production (adhesion, formation of coatings and networks), reasons of a biological character are noted: influence of products of wild yeasts and yeast-like organisms

Card 1/2

### MAYOROV, V.S.

Content of methanol and other ingredients in grape alcohols and grape vodkas. Trudy VNIIViV "Magarach" 9:185-203 '60.

(MIRA 13:11)

l. Moskovs: iy filial Vsesoyuznyy nauchno-issledovatel skogo instituta vinodeliyr i vinogradarstva "Magarach".

(Liquors) (Methyl alcohol)

MAYOROV, V. S.

Cand Tech Sci - (diss) "Study of the technological-chemical processes of producing grape alcohols and vodkas for the purpose of decrease their methanol content." Moscow, 1961. 16 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Technological Inst of Food Industry); 150 copies; price not given; list of author's works on p 16 (10 entries); (KL, 10-61 sup, 216)

ALEKSEYEV, Petr Alekseyevich, kand. tekhn. nauk; MOISEYEVA, Nataliya Andreyevna, kand. tekhn. nauk; MAYOROV, V.S., kand. tekhn. nauk, nauchnyy red.; KAPLUN, M.S., red.; MAMONTOVA, N.N., tekhn. red.

[Use of refrigeration in the manufacture of grape wine and concentrated juices] Primenenie kholoda v proizvodstve vinogradnykh vin i kontsentrirovannykh sokov. Moskva, Gostorgizdat, 1962. 47 p.

(MIRA 15:4)

(Refrigeration and refrigerating machinery)
(Fruit juices)

DRBOGLAV, Ye.S.; MAYOROV, V.S.; LIPOVICH, L.M.

Desulfurization of fruit and berry juices by means of ultrasonic waves. Trudy TSentr.nauch.-issl.inst.piv., bezalk.i vin.prom. no.11:59-60 '63. (MIRA 17:9)

MAYOROV, V.S.; SHASHILOVA, V.P.; MATASOVA, N.N.

Use of the nathless of food coloring matter from grape pulp in the production of fruit and berry wine. Trudy TSentranauch.-issl. inst.piv., bezalk. i vin. prom.no.ll:61-66 '63. (MIRA 17:9)

DENSHCHIKOV, Mikhail Tikhonovich, kand.tekhn.nauk; SILIN, P.M., prof., red.; VESELOV, I.Ya., prof., red.; SMIRNOV, V.A., prof., red.; RZHEKHIN, V.P., red.; LEBEDEV, P.P., Ped.; KOVALENKO, Yu.T., red.; KUPCHINSKIY, P.D., red.; BENIN, G.S., red.; P'YANKOV, A.G., red.; SHNAYDMAN, L.O., red.; MOREV, N.Ye., red.; SHMAIN, M.M., red.; BULGAKOV, N.I., red.; MAYOROV. W.S., red.; TERNOVSKIY, N.S., red.; RAZUVAYEV, N.I., red.; CGORODNIKOV, S.T., red.; BURMAN, M.Ye., red.; KHOLOSTOV, V.A., red.; NAMESTNIKOV, A.F., red.; NASAKIN, T.N., red.; KOVALEVSKAYA, A.I., red.; KISINA, Ye.I., tekhn. red.

**HARDITE SENDEN BERGER BEGER E** BEGER EN BEGER BERGER BEGER BEGER

[Wastes from the food industry and their utilization] Otkhody pishchevoi promyshlennosti i ikh ispol'zovanie. Izd. 2., dop. i perer. Moskva, Pishchepromizdat, 1963. 615 p. (MIRA 16:6) (Food industry-By-products)

MAYOROV, V.V., inzh.

The FB-80 bog plow. Trakt. i sel'khozmash. no.1:37-38 Ja '59.
(MIRA 12:1)

1. Tayezhnaya mashinoispytatel'naya stantsiya.
(Plows)

KAPIAN, B.L.; MAYOROV, V.V.

Studying certain parameters of surface explosions as applied to seismic prospecting. Razved. i prom. geofix. no.28:22-30 '59.

(MIRA 13:1)

(Prospecting--Geophysical methods)

KAPLAN, B.J., MATOROV, V.V.

Generation of transverse waves by directed explosions. Razved.
i prom. geofix. no.36:14-23 '60. (MIRA 13:12)

(Seismic prospecting)

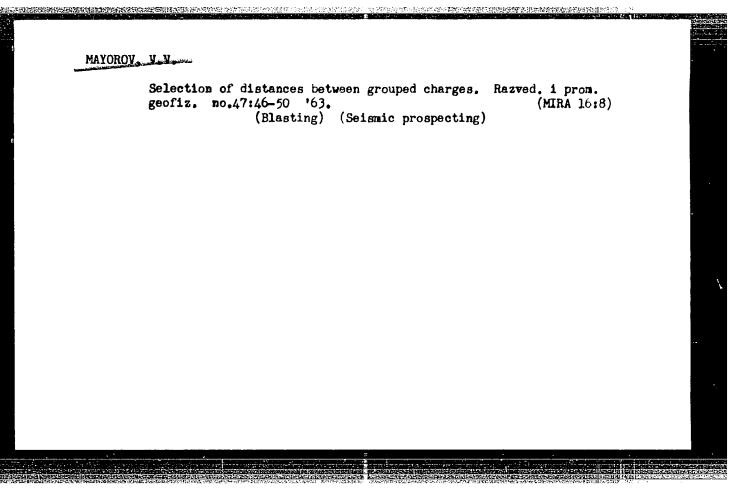
MAYOROV, V.V.; KAPLAN, B.L.; ZOLOTAREV, P.P.

Approximate method for calculating inter-charge distances in group explosions. Izv. AN Turk. SSR. Ser. fiz.-tekh., khim. i geol. nauk no.4:56-61 '61. (MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovateliskiy institut geofizicheskikh metodov razvedki.

(Explosions)

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MAYOROV, V.V.; KAPLAN, B.L.; DEMENT YEV, V.A.

Effect of the distances between grouped charges on the emplitude and frequency spectrum of the signal recorded during blasting.

Razved. i prom. geofiz. no.47:51-58 '63. (MIRA 16:8)

(Blasting) (Seismic prospecting)

是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就 第一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

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1966.	204 p. 11	lus. bibl	110 Francis ald	physics (Vzryvnoye deloscow, Izd-vo "Nedra," serted. 4500 copies at petroleum insti-	);
TOPIC TA	GS: geophy:	sics, geop	physical prospecting	, blasting operation,	
engin princ explo prosp explo and a	eers-geophysiples of the sions in a mecting are assives used a	sicists. theory of the diam. The descript the use	The authors outline of explosive materia he blasting methods and the techniques of bed. The authors a	ls and of the effect of used in seismic f operations and the	
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Ch. I. The theory of explosives -- 7
Ch. II. Explosive materials and the blasting techniques -- 49
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SUB CODE: 08, 11/ SUBM DATE: 05May66/ ORIG REF: 008/
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MAYOROV, Ya., general-mayor; VAZHENTSEV, I., polkovnik; GAVRILENKO, I., polkovnik; COL'DMAN, G., polkovnik; MEL'NIKOV, N., polkovnik

Creatively study scientific communism. Komm. Vooruzh. Sil 46 no.19:58-61 0 165. (MIRA 18:12)

ALIKHASHKIN, A.; GORCHEV, I.; MAYOROV, Ye.

Highly efficient calculating machines in the service of economists. Fin.SSSR 37 no.2:58-61 F '63. (MIRA 16:2) (Punched card systems—Budget)

L 18451-66 EWT(m)/EWP(w)/ETC(m)-6 IJP(c) WW/EM ACC NR: AP6002561 SOURCE CODE: UR/0286/65/000/023/0057/0057

AUTHORS: Gusarov, A. A.; Gorshkova, I. N.; Nayorov, Is. G.

47

ORG: none

TITLE: Device for signaling the unbalance of rotating bodies. Class h2, No. 176712 (announced by Scientific Research Institute of Chemical Machine Gonstruction (Nauchno-issledovatel skiy institut khimicheskogo mashinostroyeniya)

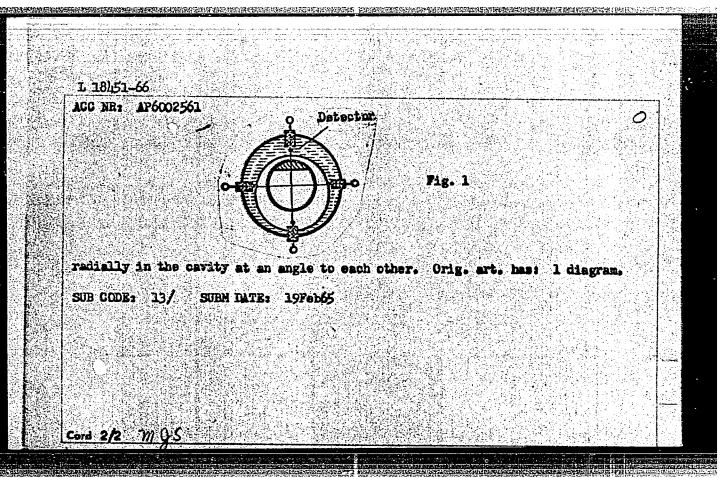
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 57

TOPIC TAGS: turbine rotor, compressor rotor, laboratory instrument

ABSTRACT: This Author Certificate presents a device for signaling the unbalance of rotating bodies, e.g., a rotor, which consists of a detector placed on the body, power units connected to the detector, a control relay, and signal lamps. To determine the direction of deflection of the rotor under the action of nonequilibrium centrifugal forces, the detector is in the form of an annular cavity partially filled with a conducting liquid (see Fig. 1). A number of contacts are mounted

Card. 1/2

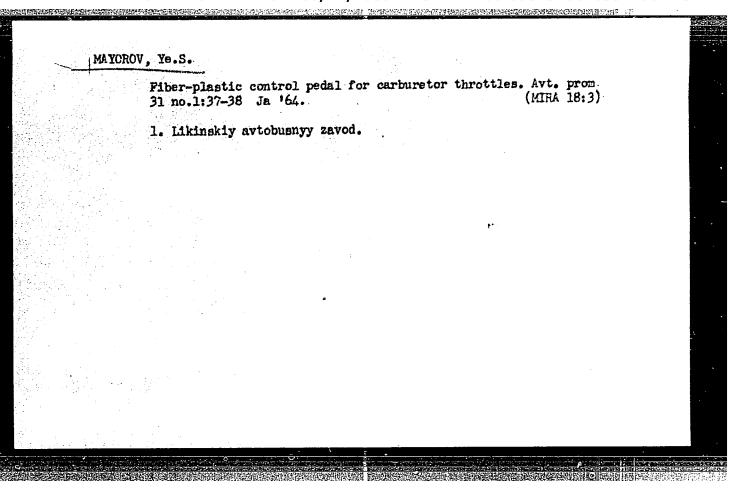
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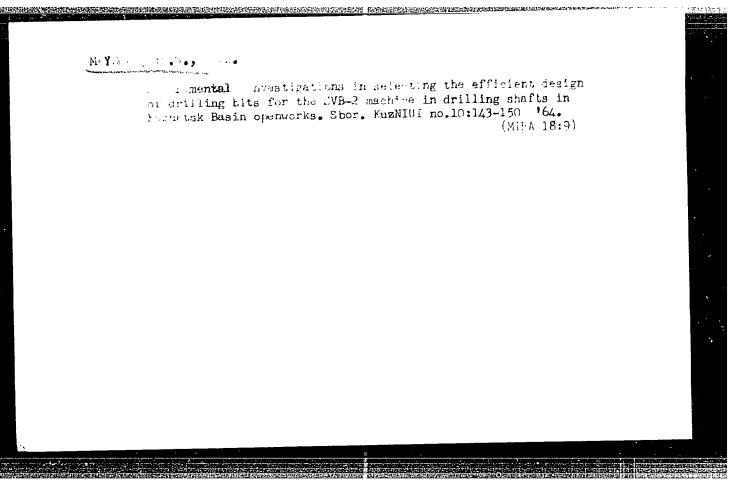


ALIKHASHKIN, Aleksandr Il'ich; GORCHEV, Ivan Ivanovich; MAYOLOV, Yevgeniy Semenovich; MEDVEDEVA, R., red.

[Mechanization of planning and accounting work in financial organs] Mekhanizatsiia planovo-uchetnykh rabot v finanso-vykh organakh. Moskva, Izd-vo "Finansy," 1964. 92 p.

(MIRA 17:8)





# MATOROVA, A.A., assistent.

An unusual case of stillbirth as a result of aneurysm of the umbilical cord. Akush. i gin. 34 no.6:100-101 N-D '58. (MIRA 12:1)

1. Iz kliniki akusherstva i ginekologii pediatricheskogo fakuliteta (zav. kafedroy-prof. M.A. Dannakhiy) Saratovskogo meditsinskogo instituta.

(STILLBIRTH

caused by aneurysm of blood vessel of umbilical cord (Rus)) (UMBILICUS CORD,

blood vessel ancurysm causing stillbirth (Rus))

TKACHEVA, K.S.; MAYOROVA, A.A.; LOGVINOVICH, D.N.

Biology and fisheries of the bonito in the Black Sea. Trudy
Azcherniro no.18:101-117 '60. (MIRA 14:10)

(Black Sea-Bonito)

SOV/80-32-4-41/47

5(2)

Lebedinskiy, W.V., Shenderetskaya, Ye.V. and Mayorova, A.G.

TITLE: The Preparation of Spectrally Pure Rhodium (Polucheniye spektral'no-

chistogo rodiya)

AUTHORS:

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 4, pp 928-929 (USSR)

ABSTRACT: To obtain chemically pure rhodium metal, the triammine-trichloride method proposed by V.V. Lebedinskiy has been extensively used. The product obtained by this method, although corresponding to a grade of chemically pure, still does not meet high purity requirements for manufacturing certain physical devices. In order to remove the remaining impurities, the authors propose to apply the sulfite method

which they describe in detail. The essence of this method consists in the dissolving of rhodium triammine-trichloride in the boiling solution of the ammonium sulfite which results in the formation of the sulfite compound of rhodium,  $(NH_4)_3 / Rh(SO_3)_3 / .$  By a series of sub-

Card 1/2 sequent operations and by roasting, rhodium metal is obtained, in which

The Preparation of Spectrally Pure Rhodium

SOV/80-32-4-41/47

even traces of impurities, such as Pt, Pd, Ir, Cu and Fe, are not

detected by spectral analysis.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN

SSSR (Institute of General and Inorganic Chemistry imeni N.S. Kurnakov

of the AS USSR)

SUBMITTED: November 17, 1958

Card 2/2

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s/078/60/005/05/13/037 B004/B016

5.2620

Mayorova, A. G.

Chernyayev, I. I., AUTHORS:

With Thiosulfate and Ethylene Diamine Zhurnal neorganicheskoy khimii, 1960, Vol.5, No. 5, pp. 1074-1084 Complex Compounds of Rhodium

TEXT: The authors describe mixed thiosulfate-ammonia compounds of rhodium which are formed in the presence of ethylene diamine (En). These are polymeric complexes in which an C n many forms the hadren than the presence of ethylene diamine (En). TITLE: are formed in the presence of ethylene dismine (an). These are polymeric complexes in which an S<sub>2</sub>O<sub>3</sub> group forms the bridge. Here, En plays a stabilizing role, inhibits the reduction, and thus permits the isolation of these complex compounds from the reduction, and thus permits the isolation of these complex compounds from the solution. The reaction of (NH ) RhCl. H O with Na S O SH O and En was investigated. PERIODICAL: she reduction, and thus permits the isolation of these complex compounds from the solution. The reaction of  $(NH_4)_3RhCl_6.H_2O$  with  $Na_2S_2O_3.5H_2O$  and En was investigated. The authors obtained the compound [Rh413S203.2NaS2038En] Na10(NH4)6.11.5H20. The water content of this compound was determined according to Yelitsur. The analysis

made by E. Ye. Burova confirmed the homogeneity of this substance. When boiling a solution of this compound a cleavage occurred after 5-20 min to give

[Rh<sub>2</sub>6S<sub>2</sub>0<sub>3</sub>.NaS<sub>2</sub>0<sub>3</sub>.4En]Na<sub>4</sub>(NH<sub>4</sub>)<sub>3</sub>.3H<sub>2</sub>0, and after 1 h the monomer [Rh3S203.2En] Na2(NH4)3.3.5H20 resulted. The tetramer is cleft by ammonia to form the dimer. By reaction of Rh3NH3Cl3 with Na2S2O3.5H2O and En the dimer

Card 1/2

6500 69538

Complex Compounds of Rhodium With Thiosulfate and Ethylene Diamine

S/078/60/005/05/13/037 B004/B016

[Rh<sub>2</sub>7S<sub>2</sub>0<sub>3</sub>.4En] Na<sub>8</sub> was obtained which is split in aqueous and ammoniacal solution to give the monomer [Rh<sub>3</sub>S<sub>2</sub>0<sub>3</sub>.2En] Na<sub>3</sub>. The authors discuss the structures of these compounds which were identified by determining their electrical conductivity, molecular weight, pH, potentiometric titration, and magnetic susceptibility. Similar to the sulfite group also the thiosulfate group enters the inner sphere as Na<sub>2</sub>0<sub>3</sub>. The authors refer to D. I. Ryabchikov and A. P. Isakova (Ref. 1). There are 8 references 7 of which are Soviet.

ASSOCIATION:

Institut obsnchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (<u>Institute of General and Inorganic Chemistry</u> imeni N. S. Kurnakov of the Academy of Sciences, USSR)

SUBMITTED:

November 3, 1959

Card 2/2

5.2620

8/078/60/005/06/04/030 B004/B014

AUTHORS:

Chernyayev, I. I., Mayorova, A. G.

TITLE:

Thiosulfate Complex Compounds of Rhodium With Ammonia

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 6,

PP- 1208 - 1220

The authors of the present paper wanted to study ammonia compounds in order to clarify the composition of the previously prepared (Ref. 1) complex compounds of rhodium with thiosulfate and ethylene diamine. They obtained the following experimental results: Interaction between (NH<sub>4</sub>)RhCl<sub>6</sub>.H<sub>2</sub>O and Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>-5H<sub>2</sub>O + NH<sub>4</sub>OH yields the tetrameric compound [Rh<sub>4</sub> 138<sub>2</sub>0<sub>3</sub> 2NaS<sub>2</sub>0<sub>3</sub> 12NH<sub>3</sub>] Na<sub>14</sub>(NH<sub>4</sub>)<sub>2</sub>, which contains four additional ammonia molecules in its internal sphere, or the compound [Rh<sub>4</sub>.13S<sub>2</sub>0<sub>3</sub>.2NaS<sub>2</sub>0<sub>3</sub>.10NH<sub>3</sub>]Na<sub>12</sub>(NH<sub>4</sub>)<sub>2</sub>.2.5H<sub>2</sub>O without excess ammonia. When these compounds are heated, they decompose into the monomer  $[Rh3s_20_32NH_3]$  Na<sub>3</sub>. In this process, the dimer  $[Rh_26s_20_3Nas_20_36NH_3]$  Na<sub>6</sub> $(NH_4)$ 

Card 1/3

Thiosulfate Complex Compounds of Rhodium With S/078/60/005/06/04/030 Ammonia B004/B094

which has two additional NH<sub>3</sub> molecules in its internal sphere, forms as intermediate of the first-mentioned tetramer with excess admonia content. This dimer enters into reaction with ammonia and forms the compound [Rh<sub>2</sub>5S<sub>2</sub>O<sub>3</sub>6NH<sub>3</sub>]Na<sub>4</sub>.3H<sub>2</sub>C. Interaction between [Rh<sub>2</sub>3NH<sub>3</sub>Cl<sub>3</sub>] and Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>.5H<sub>2</sub>O + NH<sub>4</sub>OH yields the dimer [Rh<sub>2</sub>7S<sub>2</sub>O<sub>3</sub>6NH<sub>3</sub>]Na<sub>8</sub> which is split off by boiling into the monomer [Rh<sub>3</sub>S<sub>2</sub>O<sub>3</sub>2NH<sub>3</sub>]Na<sub>3</sub>. In an ammoniacal medium this splitting takes place under simultaneous reaction with NH<sub>4</sub>OH and formation of the compound [Rh<sub>3</sub>S<sub>2</sub>O<sub>3</sub>3NH<sub>3</sub>]Na<sub>3</sub>. The compound [Rh<sub>3</sub>S<sub>2</sub>O<sub>3</sub>2NH<sub>3</sub>]Na<sub>3</sub> does not react with KI. Iodine does not enter the internal sphere, nor is the acdium of the external sphere replaced by potassium. The experiments performed are described, structural schemes are suggested, and analytical and physical data are given. The authors refer to a paper by V. V. Lebedinskiy and Ye. V. Shenderetskaya (Ref. 2). There are 2 Soviet references.

Card 2/3

Thiosulfate Ammonia	Complex	Compounds	of	Rhodium	With	<b>s/078/60/005/06/04/03</b> 0 <b>B004/B014</b>
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ASSOCIATION: Institut obshchey i neorganicheskcy khimii im.

N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences, USSR)

SUBMITTED: November 3, 1959

Card 3/3

AVTOKRATOVA, T.D.; ANDRIANOVA, O.N.; BABAYEVA, A.V.; BELOVA, V.I.;
GOLOVNYA, V.A.; DERBISHER, G.V.; MAYOROVA, A.G.; MURAVEYSKAYA,
G.S.; NAZAROVA, L.A.; NOVOZHENYUK, Z.M.; ORLOVA, V.S.; USHAKOVA,
N.I.; FEDOROV, I.A.; FILIMONOVA, V.N.; SHENDERETSKAYA, Ye.V.;
SHUBOCHKINA, Ye.F.; KHANANOVA, E.Ya.; CHERNYAYEV, I.I., akademik,
otv. red.

[Synthesis of complex compounds of platinum group metals; a handbook] Sintez kompleksnykh soedinenii metallov platinovoi gruppy; spravochnik. Moskva, Izd-vo "Nauka," 1964. 338 p. (MirA 17:5)

1. Akademiya nauk SSSR. Institut obshchey i neorganicheskoy khimii. 2. Institut obshchey i neorganicheskoy khimii AN SSSR (for all except Chernyayev).

CHERNYAYEV, I.I.; SHENDERETSKAYA, Ye.V.; MAYOROVA, A.G.; KORYAGINA, A.A.

Rhodium formate compounds. Zhur. neorg. khim. 10 no.2;
537-579 F '65. (MIRA 18:11)

1. Submitted July 20, 1964.

MAYOROWA, A. M. "On the problem of the etiology of tetanus", Trudy Voronezhsk. ros. med. in-ta, Vol. XVIII, 1949, p. 70-75.

So: U-4631, 16 Sept 53, (Letopis 'Zhurnal 'rykt Statey, No. 24, 1949).

MAYOROVA, A. N. "On the clinical treatment of brain tubercolesis", Truly Volchelman. gos. med. into, Vol. 2011, 1519, p. 128-32.

SC: U-1631, 16 Sept 53, (Latopis 'Zhurnal 'rykt Statey, No. 24, 1949).

Cartavated . . . . ts. Grains. Leguminous Grains. Tropical Carenis. CATEGORY :

Rel lbur -Br logice No. 5, 1009, Bc. 20235 ASS. JOUR :

Chernyy, V.A.; Mayorova, A.R. Subhalin Complex Sci.Res.inst.of the AS USSR AUTHOR The Action of Mineral Fertilizers and Effect; INST.

of Sowing Norms on the Oat Yield and Resis-TITLE

tance to Lodging (Culm Strength).

Spobshoh. Sakhalinsk. kompleksn. n.-i. in-ta ORIG. PUB .:

AN SCSR, 1957, vyp. 5, 112-117

Dats is the basic forage grain crop in Sakha-ABSTRACT :

lin; a reduction in its output in certain years has been associated with lodging, which causes great grain losses in harvesting. To produce high oat yields and increase its resistance to lodging it is expedient to grow the crop with a background of phosphatepotash fertilizers with small doses of N, applied before sowing. Boosting the sowing

rates above 140 kg/ha did not increase the

1/2 CARD:

CIA-RDP86-00513R001033110012-9" APPROVED FOR RELEASE: 06/14/2000

GORELIK, B.M.; BUKHINA, M.F.; KAPSHTYK, V.I.; RATNER, A.V.; MAYOROVA, A.S.
Rubber sealing rings. Standartizatsiia 25 no.3:49-50 Mr '61.
(MIRA 14:3)

(Gaskets—Standards)

ZHEREBKOV, S.K.; MAYOROVA, A.S.; GROZHAN, Ye.M.; KONDORSKAYA, V.A.

Using rubber and ebojite for the protection of equipment from the action of chemical media. Standartizatsia 26 no.2:37-38

F '62. (MIRA 15:2)

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PETROCHENKO, P.F.; SHAPIRO, I.I.; LUR'YE, G.B., prof.; DAYON, A.Ye., inzh.; ZAKHARKIN, V.I., inzh.; HAYOROVA, A.V., inzh.; FELIKSON, N.I., inzh.; FILIPPOVA, L.A., inzh.; GVOZDEVA, A.N., inzh.; MODEL', B.I., tekhn.red.

[General norms for cutting conditions and time in the machinery industry for technical normalization of machining on grinding machines; large-lot and mass production] Obshchemshinostroitel-nye normativy rezhimov rezaniia i vremeni dlia tekhnicheskogo normirovaniia rabot na shlifoval'nykh stankakh; krupnoseriinoe i massovoe proizvodstvo. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 359 p. (MIRA 13:1)

1. Moscow. Nauchno-issledovatel'skiy institut truda. TSentral'noye byuro promyshlennykh normativov po trudu. 2. Glavnyy inzhener TSentral'nogo byuro promyshlennykh normativov po trudu pri
Nauchno-issledovatel'skom institute truda (for Petrochenko).
3. Zaveduyushchiy otdelom mashinostroyeniya TSentral'nogo byuro
promyshlennykh normativov po trudu pri Nauchno-issled.institute
truda (for Shapiro). 4. Sotrudniki TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom
institute truda (for Dayon, Zakharkin, Mayorova, Felikson,
Filippova, Gvozdeva).

(Grinding and polishing)

PETROCHENKO, P.F.; SHAPIRO, I.I.; LUR'YE, G.B., prof.; DAYON, A.Ye., inzh.; ZAKHARKIN, V.I.; inzh.; MAYOROVA, A.V., inzh.; PELIKSON, N.I., inzh.; FILIPPOVA, L.A., inzh.; GVOZDEVA, A.H., inzh.; DOBRITSYNA, R.I., tekhn.red.

[General engineering time norms for the technical standardization of machining processes on grinding machines; small-lot and piece production] Obshchemashinostroitel'nye normativy vremeni dlia tekhnicheskogo normirovaniia rabot na shlifoval'nykh stankakh; melkoseriinos i edinichnoe proizvodstvo. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1960. 38 p.

(MIRA 14:1)

1. Moscow. Nauchno-issledovatel'skiy institut truda. TSentral'noye
byuro promyshlennykh normativov po trudu. 2. Glavnyy inzhener
TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchnoissledovatel'skom institute truda (for Petrochenko). 3. Zaveduyushchiy otdelom mashinostroyeniya TSentral'nogo byuro promyshlennykh
normativov po trudu pri Nauchno-issledovatel'skom institute truda (for
Shapiro). 4. TSentral'noye byuro promyshlennykh normativov po trudu
pri Hauchno-issledovatel'skom institut truda (for Dayon, Zakharkin,
Mayorova, Felikson, Filippova, Gvozdeva).

(Grinding and polishing)

PORT, B.S.; VORONENKO, L.M.; Prinimali uchastiye: IVANOV, L.I.; MAYOROVA, A.V.; PETROV, B.M.

Some problems of the improvement of the design and manufacture of press molds for tread vulcanization. Kauch. i rez. 23 no.10: 44-46 0 '64. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy i konstruktorskiy institut po oborudovaniyu dlya shinnoy promyshlennosti, g. Yaroslavl'.

MIRSAGATOVA, R.S.; MAYOROVA, B.I.

Some characteristics of the clinical course of the postnatal period in infants. Pediatriia no.3:23-28 My-Je '54. (MIRA 8:1)

1. Iz Khar'kovskogo nauchno-issledovatel'skogo instituta okhrany materinatva i mladenchestva im. N.K.Krupskoy (direktor A.I.Korni-lova) na baze 7-go rodil'nogo doma gorzdravotdela (glavnyy vrach I.T.TSvetkov)

(INFANTS (NEWBORN)) (BLOOD--EXAMINATION)

MIRSAGATOVA, R.S., starshiy nauchnyy sotrudnik; MAYOROVA, B.I., ordinator 7-go rodil'nogo doma

Transfusion of erythrocytes in isosensibilized newborn infants. Vop.okh.mat. i det. 1 no.3:13-15 My-Je '56.

1. Iz Kar'kovskogo nauchno-issledovatel'skogo instituta imeni N.K. Krupskoy (dir. - kandidat meditsinskikh nauk A.I. Kornilova. nauchnyy rukovoditel - prof. V.I.Konstantinov) (INFANTS (NEWBORN) -- DISEASES) (BLOOD-TRANSFUSION) (ERYTHROCYTES)

THE DESIGNATION OF THE DESIGNATION OF THE PROPERTY OF THE PROP

LOBANOVSKAYA, L.I.; MAYOROVA, B.O.; MIRSAGATOVA, R.S.; YURCHENKO, M.Z.; YAKOVLEVA, M.Ya.; YANKELEVICH, D.Ye.

Diabetes mellitus and pregnancy. Trudy Ukr.nauch.-issl.inst. eksper.endok. 18:141-174 '61. (MIRA 16:1) (DIABETES) (PREGNANCY, COMPLICATIONS OF)

MAYOROVA, E., inzh.-tekhnolog

Nonmetallic materials in machine-tool manufacture. Tekh. est. no.3:16-18 Mr '65. (MIRA 18:6)

1. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov.

MAYOROVA, E. A. Cand. Tech. Sci.

Dissertation: "Changes in the Proporties of Leather Under Various Conditions as Characteristies of Its Stability in Long-Time Storage." Moscow Technological Inst of Light Industry imeni L. M. Kaganovich, 27 Nov 47.

SC: Vechernyaya Moskva, Nov, 1947 (Project #17836)

是一个自己的。 1915年11月1日 | 1915年11日 |

SOV/121-58-10-11/25

Mayorova, E.A. AUTHOR:

Selection of Plastics for the Manufacture of Typical TITLE:

Machine Tool Components (Vybor Plasticheskikh mass dlya Izgotovlinya Tipovykh detaley stankov)

PERIODICAL: Stanki i Instrument, 1958, Nr 10, pp 29-32 (USSR)

Several plastic moulding compositions were tested ABSTRACT: for their suitability to make machine tool components

for tropical uses. Table 1 lists the mechanical and physical properties of different compositions, namely FKPN/50 (obtained by mixing phenol formaldehyde resins with synthetic rubber of the acrylic nitryl and of the styrol types) recommended for components with high mechanical and insulating properties, "Phenolit" and "Decorrosit" (obtained by mixing phenol formaldehyde resins with polyvinyl chloride using hydrophobic organic and mineral fillers) recommended for high mechanical

thermal and corrosive properties ("Decorrosit" resists alkaline solutions) and OFPM-296 (phenol-exazolidine powder) recommended for cast components with inserts. The moulding process is given in Table 2 for each of

the compositions. Swelling tests in distilled water, Card 1/2

SOV/121-58-10-11/25

Selection of Plastics for the Manufacture of Typical Machine Tool Components

a 0.02% alkaline emulsion, mineral oil, paraffin and "sulphofresol" cutting liquid at a temperature of 25°C were continued for 1000 hours. The swelling of the different compositions after 24, 72, 200, 500 and 1000 hours is listed in tables 3-6. Table 8 shows the change in weight of "Decorrosit". Table 7 shows the change of the electrical properties of the different compositions after immersion in water for 1000 hours. The effect of the addition of fungicides is shown to be small in FKPM-15, Phenolit and Decorrosit.

Tests with ultra-violet radiation have shown little effect. Creep tests under a transverse bending load were carried out indicating a high initial creep in FKPM-15. There are 3 illustrations including 2 graphs and 9 tables.

C ard 2/2

s/121/59/000/12/003/003

AUTHORS:

Mayorova, E.A., Lapidus, A.S.

TITLE:

Thinly Laminated Glue-on Plastic Guides

PERIODICAL: Stanki i Instrument, 1959, No 12, pp 23 - 25

是是这种是是是是自己的现在分词,然后也是我们的现在,这种是不是这么多少的,并不是这些是不是可以是我们是这种的的。

The authors state that plastic guides for heavy machinery hitherto were made with a thickness of 10 mm and were fastened by screws or pins. The TEXT: use of glue-on type plastic guide strips makes it possible to reduce this thickness, and the authors recommend for machine tools of medium size a thickness of plastic guide strips of 2 - 4 mm, and for heavy machines a thickness of 3 - 5 mm. The material recommended is the PT grade textolite (or PT-1), although at present industrial tests with thinly laminated guides made of cord b caprone and 68-polyamide are carried out. Compared with thick plastic guide strips, the thinner ones have the following advantages: 1) the consumption of deficient plastics is greatly reduced (by 2 - 4 times); 2) labor-consumption in the manufacture of plastic guides decreases; 3) layer deformations of the plastic material are considerably reduced, which ensures a high stability of the plastic layer; 4) the rigidity of machine body parts is somewhat in-

Card 1/2

**全国工程学的报告的**是是不可能是有效的。在这个工程,但是不是不是一个的是,不是不是,所以这些一个的人的,不是不是一个的人的,但是这种的人的人的人们是一个人们们的人们

Thinly Laminated Glue-on Plastic Guides

S/121/59/000/12/003/003

creased, which is important for tables and slides, generally not rigid enough. The authors emphasize the great importance of selecting the proper glue, which must possess a high shearing strength, warrant an increased impact strength of the glue seam and have a high resistance to mineral oils, organic solvents, aqueous coolants, high relative air moisture and temperatures in the range of 80 - 100°C. The authors cite the results of investigations which were carried out at the ENIMS (Experimental Scientific Research Institute of Metal Cutting Machine Tools) in order to test the properties of various glue compounds, among others the epoxide resin glues ED-5, ED-6 and the K-168 compound. The holding power of the glues was tested for the following materials: cast iron with steel textolite, polyamides, vinyl plastics, cord fibres, Br.OTsS 6-6-3 grade bronze, TsAM 10-5 grade zinc alloy, and L62 grade brass. The results of these tests are cited in the Tables 1, 2 and 3. Based on the investigations carried out by the ENIMS, instructions for the glueing of plastic guide strips were worked out which, since 1957, were subjected to extensive checks in machine tool plants and machine building factories. Three diagrams, 3 tables.

Card 2/2

s/080/60/033/008/010/013 A003/A001

AUTHOR:

Mayorova, E.A.

TITLE:

The Problem of the Stability of the Properties of Some Flastics

PERIODICAL:

Zhurnal prikladnov khimii, 1960, Vol. 33, No. 8, pp. 1862-1867

The stability of plastics in coolants, mineral oils, organic solvents, etc, was determined by measuring the changes of their linear dimensions and their weight. The experiments were made with 17-68 P-68, AK-7 AK-7 and 11-54 P-54 weight, polycaprolactam, cord caprone and (PT) textolite. It was shown that the highest water absorption was observed in the first days. The size and weight change more quickly in water at 50°C than at 20°C. Saturation sets in after 2 weeks and a month, respectively. The limits of the increase in size and weight in water at 20 and 50°C are the following: the diameter of samples of PT textolite and P-68 polyamide increases by 0.7%, that of caprone, Scord caprone and AK-7 polyamide by 2.5%; the thickness of samples of PT textolite increases by 3%; the weight of P-68 samples increases up to 4%, of PT textolite by 7%, caprone, cord caprone and AK-7 by 8.5-9%; the diameter of samples of polyamide 54 increases in water at 20°C by 2.6%, the weight by 12.5%, at 50°C cracks appear. In cooling

Card 1/2

S/080/60/033/008/010/013 A003/A001

The Problem of the Stability of the Properties of Some Plastics

liquids containing soda and triethanolamine the values observed are the same as in water. In oil at 20°C the sizes of the samples increase only slightly. The diameter of samples of PT textolite increases by 0.07% and in polyamides less than 0.05%. In oil at 70°C the sizes and the weight of all samples decreases. Samples of PT textolite decrease by 0.1% in diameter, polyamide 54 by 0.8%, in other polyamides by 0.5%. It was shown that polyamide P-68 and cord caprone can be used for the manufacture of machine tool parts. There are 8 figures and 1 table.

ASSOCIATION: Eksperimental'nyy nauchno-issledovatel'skiy institut metallore-

zhushchikh stankov (Experimental Scientific Research Institute of

Metal\_Cutting Machines)

SUBMITTED:

September 17, 1959

Card 2/2

#### CIA-RDP86-00513R001033110012-9 "APPROVED FOR RELEASE: 06/14/2000 是一个人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人的人,我们也没有一个人的人的人,我们也没有一个人的人,我们就会没有一个人

s/121/61/000/004/007/008 DO40/D113

AUTHORS:

Vladimirova, L.V., and Mayorova, E.A.

TITLE:

Nonmetallic protection materials for machine tool ways

PERIODICAL: Stanki i instrument, no. 4, 1961, 34-36

TEXT: Results are given of materials' tests conducted in search for substitutes for cardboard, synthetic leather and 65 (65G) band steel used for the protection of machine tool bed ways. Substitutes are required since cardboard and "dermatin" (synthetic leather) are susceptible to water and cutting fluids, and 65G steel is subject to cracking. Tests were carried out at the chemical laboratory of ENIMS together with the machine-tool laboratory of the Moskovskiy zavod shlifoval'nykh stankov (Moscow Grinding Machine Plant). The tested substitutes were as follows: a polyvinyl chloride plastic of the Vladimirskiy khimicheskiy zavod (Vladimir Chemical Plant) produced per standard BTY MXT 2024-49 (VTU MKhP 2024-49) specification, where polyethylene of the Okhtenskiy khimkombinat (Okhta Chemical Combine); synthetic leather of the Kalininskiy "IK" zavod (Kalinin "IK" Plant),

Card 1/2

Nonmetallic protection materials ....

S/121/61/000/004/007/008 D040/D113

rubberized fabric of the zavod "Kauchuk" ("Kauchuk" Plant) and tentative compounds with combinations of different resins for a base. The experimental specimens of the materials were prepared by the NII plenochnykh materialov i iskusstvennoy kozhi (NII of Film Materials and Artificial Leather). Materials which passed chemical tests for resistance to all possible outting fluids, humidity, and fatigue resistance in bending, were further tested on a stand. The test results are given in two tables and show the mechanical properties and weight changes of materials after testing for 45 days. Bands of polyvinyl chloride reliably protected machine ways from dirt without any volumetric changes or traces of destruction. It was concluded that the best substitutes for 65G steel are polyvinyl chloride plastic (per VTU MKhP 2024-49), polyvinyl chloride combined with nitryl rubber, and polyethylene. There is I figure and 2 tables.

Cara 2/3

S/121/61/000/008/001/006 D041/D113

AUTHORS:

Gladkov, B.A.; Mayorova, E.A.; Shilkin, O.D.; Shiferson, M.M.

THE REPORT OF THE PROPERTY OF

TITLE:

The use of plastics for manufacturing large-size components

of machine-tools

PERIODICAL: Stanki i instrument, no. 8, 1961, 1-4

TEXT: The article describes experimental investigations carried out with plastics in order to determine the extent to which they may be used for manufacturing large-size components of metal cutting machine-tools. These components can be manufactured by casting or by contact molding, the latter producing better mechanical properties in the components. The hardness of large-size components manufactured by the casting method can be raised by improving the properties of the binding and fiber fillers. As glass fibers in the form of cloth etc. can be used as fillers, the use of glass plastics for making lathe components was considered. Since there was practically no data on the stability of glass plastics, their swelling-up and creep characteristics were investigated in detail. The swelling-up of the specimens was tested in water-cooling liquids and mineral oil at a high relative hu-

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S/121/61/000/008/001/006 D041/D113

The use of plastics...

midity (9525%) and temperature (5025°C). The creep characteristics were investigated by loading the specimens so as to produce bending, i.e. by applying a concentrated force to the center of the specimen which was placed on two supports. Plastic specimens obtained by contact molding from NH -1 (PN-1) polyester gum and T (T) glass cloth, and by hot pressing from KACTB (KAST V) glass textolite, AF -4C (AG-4S) glass plastics and RA glass textolite (CSR brand), were tested. The creep of plastics made of epoxy resin and a metal filler by mold casting, was also investigated. The specimens were covered either by a protective layer or by "924" nitro-enamel. They were weighed on an analytical balance with an accuracy of up to 0.0004 g. The following results were obtained: KAST V glass textolite showed the largest change in weight (1.26%), the saturation point being reached after 19 days: glass plastics made of PN-1 polyester gum showed a weight increase of 0.6% and did not attain the saturation point after 83 days; AG-4S glass plastics had the least change in weight (0.19% after 83 days), and RA glass textolite attained a maximum water absorption (0.77%) after 6 days. Tests in the humidity chamber showed that KAST V glass textolite had the largest humidity absorption, while AG-4S and glass plastics obtained by contact

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The use of plastics...

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molding showed the lowest hygroscopicity. The nitro-enamel layer did not protect the specimens from humidity and the oil cooling liquids. Linear changes in the plastics depended on the medium in which they were placed, on the method of their manufacture, on their machining, and on the type and quantity of the binding agent. Cooling liquids and a high relative air humidity reduced the mechanical properties by 1.5-2 times. Creep tests were carried out at room temperatures using the NK-2 (PK-2) device designed by ENIMS. This device permitted deformations during bending at constant load to be measured. KAST V glass textolite served as a reference specimen. The results show that AG-4S and RA have the lowest creep, while cast specimens of epoxy resins with a metal filler have the highest (15-20 times higher than the reference specimen's creep at a bending stress of 100-200 kG/cm<sup>2</sup>), and cannot be used for making high-duty components of metal-cutting machinetools. It is concluded that glass plastics can be used only for large-size machine-tool components. ENIMS and NIIP have manufactured a series of large-size components for the 1K62 (1K62) screw-cutting lathe in order to validate the obtained results. The zavod "Stankokonstruktsiya" ("Stankokonstruktsiya" Plant) has manufactured the following parts for the 1K62

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The use of plastics...

lathe from glass plastics: front and rear legs, rear leg inserts, tray, gearbox and feeding box covers, and housings. Test runs gave good results. There are 4 figures.

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AYZENSHTADT, L.A.; PEN'KOV, P.M.; GLADKOV, B.A.; LIKHT, L.O.;

KRIMMER, T.Ye.; KASHEPAV, M.Ya., kand. tekhn. nauk;

MERPERT, M.P., kand. tekhn. nauk; KOPERBAKH, B.L.;

CHERNIKOV, S.S., kand. tekhn.nauk; BELOV, V.S.; ZHURIN,

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doktor tekhn. nauk, red.; BELOGUR-YASNOVSKAYA, R.I., red.;

CHIGAREVA, E.I., red.; ASVAL'DOV, M.Ya., red.; KOGAN, F.L.,

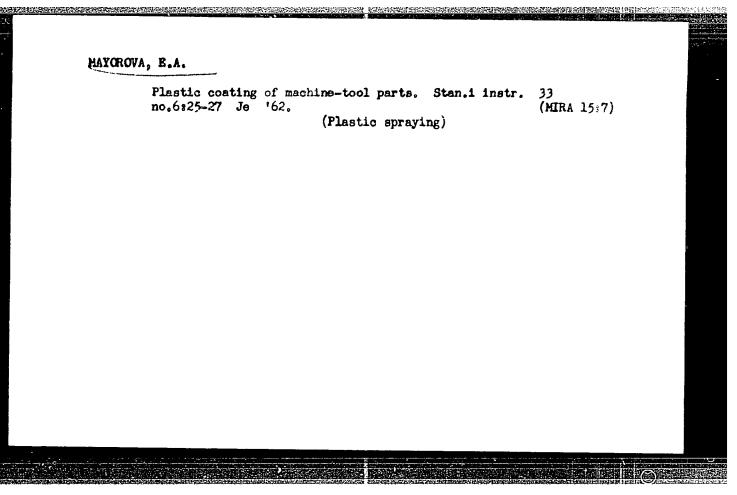
tekhn. red.

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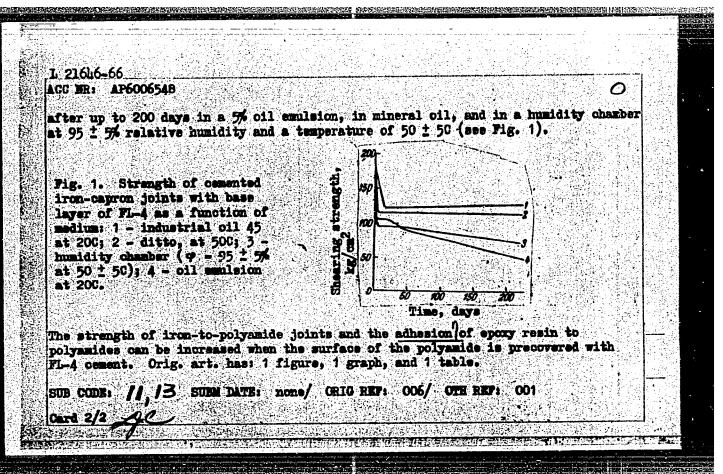
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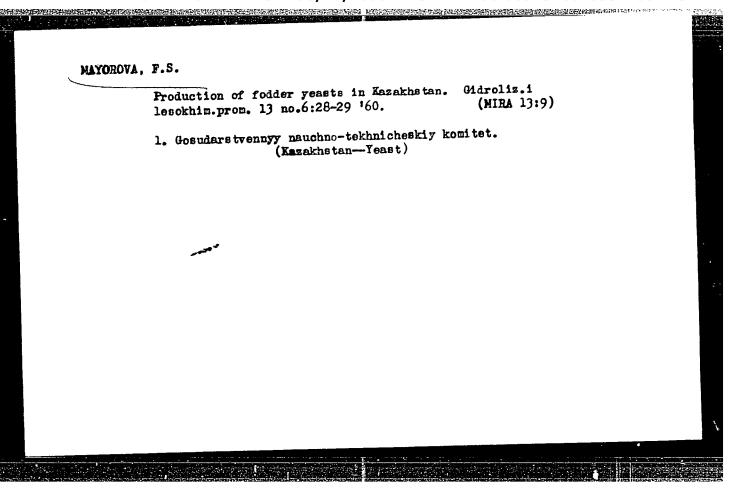
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L 216L ACC MR:	S-66 EMT(d)/EMT(m)/EMP(v)/EMP(j)/T/EWP(l) RM/WW AP6006548 (A) SOURCE CODE: UR/0191/65/000/011/0061/0064	
AUTHORS:	Mayorova, E. A.; Ovchinnikova, T. V.	
ORG: 200		
TITLE:	A two-stage method for gluing polyamides to metals	
SOURCE:	A two-stage method for gluing polyamides to metals ( Plasticheskiye massy, no. 11, 1965, 61-64	
TOPIC T	GS: polyamide, glue, shear strength, resin, teflom, adhesion, cast iron, lastic, glass textolite	
water i	The use of solutions of polyamides in solvents containing alcohol and or gluing polyamides is discussed. These solutions show a higher adhesion or gluing polyamides is discussed. These solutions show a higher adhesion programmes based on epoxy resins. Nethods for preparing the metal smides than cements based on epoxy resins. Nethods for preparing the metal smides than cements based on epoxy resins. Nethods for preparing the metal smides than cements were used as the same of the large of the solutions of the solutions of the solutions of the solutions of polyamides in solvents containing alcohol and the solutions of the solution	
2/10./P	s are discussed. In the experiment, the following tements were greater than the problem of the p	
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(DIPHTHERIA) (WHOOPING COUGH) (LUNGS)
(IMMUNITY)